

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph nos. 15, 16, 37, 38, 55 and 57 with the following amended paragraphs:

[15] $S_i^k = \max(V(a_i^k), F_i^{k-1})$ ~~(where $Q_i = 0$),~~

[16] where S_i^k is a virtual start service time of a k-th packet of an i-th stream, $V(t)$ is a system virtual time function equal to $V(a_i^k)$, a_i^k is an arrival time of the k-th packet of the i-th stream, F_i^{k-1} is a virtual finish service time of a (k-1)-th packet of the i-th stream, and Q_i ~~is wherein~~ the quantity of the previous packet contained in a corresponding queue of the i-th stream is equal to zero.

[37] $S_i^k = \max(V(a_i^k), F_i^{k-1})$ ~~(where $Q_i = 0$)~~.....(2)

[38] $S_i^k = F_i^{k-1}$ ~~(where $Q_i \neq 0$)~~..... (3)

[55] $S_i^k = \max(V(a_i^k), F_i^{k-1})$ ~~(where $Q_i = 0$)~~ (2)

[57] $S_i^k = F_i^{k-1}$ ~~(where $Q_i \neq 0$)~~ (3)

Please replace the Table 1 with the following amended Table 1:

Table 1

$V(t)$	Virtual time function of system
S_i^k	Virtual start service time of packet k of data stream i
F_i^k	Virtual finish service time of packet k of data stream i
τ	Renewal time-interval of system virtual time
$B(t)$	Set of all the streams to be backlogged in system at time t
$H_i(t)$	Serial number of head packet of data stream i at time t
Q_i	Quantity of packet to be scheduled in data stream i
a_i^k	Arrival time of packet k of data stream i
L_i^k	Length of packet k of data stream i
$R_i(t)$	Data rate of data stream i at time t